



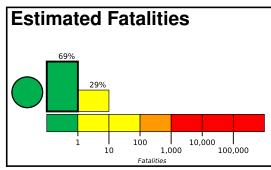


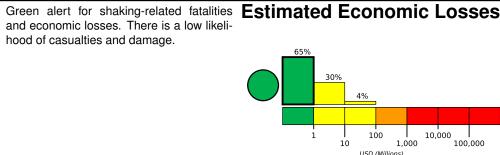
PAGER Version 1

Created: 1 hour, 7 minutes after earthquake

M 4.1, 10km ESE of Willits, CA

Origin Time: 2020-10-20 01:58:50 UTC (Mon 18:58:50 local) Location: 39.3663° N 123.2465° W Depth: 6.2 km





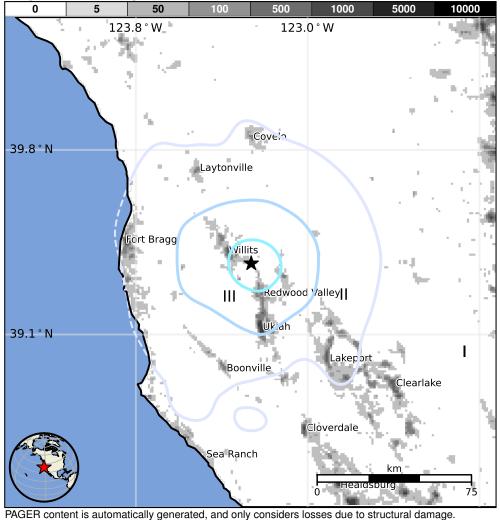
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		210k	100k	12k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/nc73472896#pager

Structures

Overall, the population in this region resides in structures that are highly resistant to earthquake shaking, though some vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-09-21	343	6.0	VI(47k)	1
1980-01-24	226	5.8	VII(35k)	1
1989-10-18	282	6.9	VIII(109k)	62

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org					
MMI	City	Population			
IV	Willits	5k			
IV	Redwood Valley	2k			
Ш	Brooktrails	3k			
Ш	Ukiah	16k			
Ш	Talmage	1k			
II	Upper Lake	1k			
I	Clearlake	15k			
I	Cloverdale	9k			
I	Windsor	27k			
1	Red Bluff	14k			
1	Healdsburg	11k			

bold cities appear on map.

(k = x1000)